

Date: Tue, 24 May 94 08:08:53 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #567
To: Info-Hams

Info-Hams Digest Tue, 24 May 94 Volume 94 : Issue 567

Today's Topics:

 "for ID"
 * SpaceNews 23-May-94 *
 150 Years (2 msgs)
 A4x (Oman) QSL Manager
 A novice needs some help!
 Icom IC-215 Manual Needed
LOOKING FOR >> Allied Radio AX-190 DOCUMENTATION!!!
 Luck Hurder ... gone:(Why?
 Radio Shack DSP
 Scurvy knaves at ARRL (2 msgs)
 Test session stories
 Test session weirdos

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 24 May 1994 09:28:33 -0400
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!darwin.sura.net!
pegasus.cc.ucf.edu!pegasus.cc.ucf.edu!not-for-mail@network.ucsd.edu
Subject: "for ID"
To: info-hams@ucsd.edu

On 22 May 1994 18:50:13 GMT Steven J. King
wrote the following in rec.radio.amateur.misc:

> For fun -- but only once in a while so I don't become TOO annoying --
> I will rebell against the "for I.D." and say "for the FCC". hihi

> ..er.. **** ** **** ** ..er.. haha <whew>

On voice you are supposed to say "semicolon minus-sign
close-parenthesis" to denote that you made a funny ;-)

John -- kr4ah.

Disclaimer: I am not responsible for the actions of
any Alpha-Hotels other than myself.

Date: 24 May 94 13:55:09 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 23-May-94 *
To: info-hams@ucsd.edu

Hi folks.

Sorry if this is a dupe, but I've been having a lot of trouble with mail
lately.

73, de John, KD2BD

SB NEWS @ AMSAT \$SPC0523
* SpaceNews 23-May-94 *

BID: \$SPC0523

=====
SpaceNews
=====

MONDAY MAY 23, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is
published every week and is made available for unlimited distribution.

* LUSAT-1 CRASH RECOVERY UNDERWAY *
=====

On 16-May-94 while LU1JBR and other stations were operating LUSAT-1 (LO-19), the satellite's downlink vanished, a result of an on-board computer crash. By 17-May-94, LUSAT-1 command station (operated by Norberto Pennini, LU8DYF), successfully reset the satellite.

Norberto will start a series of deep tests and studies in order to find the origin of the crash. Reloading of operating software will follow the study. Please note that the satellite will not be operational for regular users for the next 7 to 30 day period.

LUSAT-OSCAR-19 controllers would like to thank LU8DYF and other stations who, in a way or another, collaborated and made this operation a success, including: LU6DYD, LU7AKC, LU7DSU, LU8ENU, LU4AGC, LU1EXC, LU2BDT, LW1EE0 and LU3AGY.

[Info via Eduardo Sweet, LU7AKC]

★ AMSAT CALL FOR PAPERS ★

=====

Share your experience with the amateur satellite community at the 1994 AMSAT-NA Annual Meeting and Space Symposium scheduled for 07-Oct-94 through 09-Oct-94 in Orlando, Florida. Come help celebrate AMSAT's 25 year presence in Space. Your help is needed to make this meeting a success.

Papers for this meeting are sought. Editing, formatting, graphics and even typing can be provided if required. Prepare a paper and advance your reputation among others involved in the Amateur Satellite program! Even if you cannot attend the meeting, consider a paper for publication.

Topics for all amateur satellite disciplines are sought. Author and Title requested ASAP. Compose a short abstract by July 1. Final drafts are requested on or about August 26.

Direct inputs and inquiries to:

Steve Park - WB90EP

12122 99th Ave. N.

Seminole, FL 34642

Phone: (813) 391-7515

Internet: SKPA@QMGATE.ECI-ESYST.COM

Amateur Packet Radio: WB90EP @ W4DPH#TPA.FL.EL870W

Join us in Orlando, Florida for the fun and festivities!

[Info via Steve Park, WB90EP]

★ CLEMENTINE FAILURE ★

=====

After successfully completing a mission using advanced ballistic missile defense technologies to map the entire surface of the moon, the Ballistic Missile Defense Organization's Clementine satellite suffered an on-board malfunction at 9:39 AM EST on 07-May-94. The likely result of this malfunction will be to prevent Clementine from performing the planned close fly by of the near-Earth asteroid Geographos in August 1994, and for the satellite to point its cameras and sensors.

Preliminary analysis has traced the cause of the malfunction to the on-board computer which controls most of the satellite's systems including the attitude control thrusters. The computer activated several thrusters during a 20 minute telemetry interrupt with the ground station, thus depleting all the fuel in the Attitude Control System (ACS) tanks. It has not been determined as yet whether the fault was in the computer software or in the computer's electronic chips. The primary processor on the computer is a radiation hardened Military Standard 1750A computer, which is not experimental technology.

Clementine's mission control center in Alexandria, VA. is continuously monitoring the satellite. It has been determined that all instruments and systems are continuing to function well with the exception of the ACS.

Although it may be difficult to Clementine to make the close fly by of the asteroid, the satellite will continue to perform its intended military mission to test 23 advanced technologies. The Clementine engineering team is examining several mission options which would continue to yield useful data. Since January 25, 1994, Clementine's cameras have recorded over 1.5 million images including the topographical surface of the moon. Analyzing this data, including results of the search for the existence of ice on the lunar surface, will continue to occupy scientists for many years.

The Clementine project is managed by BMDO, built by the Naval Research Laboratory, and its instruments constructed by industry and the Lawrence Livermore Laboratory. It has been a landmark project since it demonstrates that small, highly capable satellites can be built and launched for under \$100 million and in less than two years, using advanced miniaturized technology and a streamlined management approach.

[Info via Richard H. Buenneke Jr.]

* DISCOVERY OF ASTEROID MOON *

=====

NASA's space probe Galileo has discovered what is probably the first known moon of an asteroid. Since Galileo passed the asteroid, Ida, on August 28, 1993, the probe has continued to send back images and data from the near infrared mapping spectrometer. Because of the great distance at

which the probe is from Earth, downloading this data will continue for months to come.

The Galileo Project Scientist, announced on March 3, 1994, the discovery of a "blip" consisting of more than a few pixels visible in data from both the solid-state imaging system and the spectrometer.

Based on simultaneous observation, a natural moon may be in orbit around Ida. If so, this would be the first satellite of an asteroid to be discovered.

More information will be forthcoming soon from NASA, along with the first images of this possibly new moon orbiting Ida.

[Info via Dave, N9JUW]

* ECLIPSE IMAGE AVAILABLE VIA FTP *

=====

A collection of images taken of the 10-May-94 annular solar eclipse have been assembled into a single file and is available via anonymous FTP at: ftp.uleth.ca (IP # 142.66.3.29). The image is called "eclipse.gif" and is located in the "pub/solar/Images" directory at this site. The frame contains 24 high-quality images taken by the Big Bear Solar Observatory. All but three are full-disk hydrogen-alpha and Ca II K images, giving excellent views of existing features visible on the Sun (regions of enhanced plage, filaments, etc). The other three images are high-resolution close-up images of the Sun showing craters and mountain ranges against the background of the solar surface. "eclipse.gif" is a large 1500 x 1297 x 256 image that will make good use of large high-resolution monitors.

The folks at the BBSO did a great job capturing these images, and deserve a nice pat on the back for covering the event so well.

"eclipse.gif" is in a semi-permanent state. That is, it will not be removed from the FTP disk for a few months.

[Info via Cary Oler]

* RS-10 NEWS *

=====

VE3CIQ in Canada reports that RS-10 is working quite well in Mode A. In one Atlantic pass, he made contact with FG5GI from Guadeloupe Island, ON2ATB from Belgium, and N1MCT from Maine, USA using 25 watts of transmitter power. VE3CIQ reports he can hear himself with only 5 watts.

[Info via VE3CIQ]

* SpaceNews IN SPANISH *

=====

Pedro Jose, EA4ADD in Spain is translating SpaceNews issues into the Spanish language and circulating the translated issues throughout the LATNET (Latin America) and the EA (Spanish) packet radio networks.

My thanks to EA4ADD for taking the time to translate SpaceNews into Spanish.

* THANKS! *

=====

Thanks to all those who sent messages of appreciation to SpaceNews, especially:

ON1AOT VK2XCI VE3CIQ EA4ADD N6UVY WB9OEP W0XK

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107
PACKET : KD2BD @ N2KZH.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD
Department of Engineering and Technology
Advanced Technology Center
Brookdale Community College
Lincroft, New Jersey 07738
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane, KD2BD * /\ /\ * Voice : 1-908-224-2948
Advanced Technology Center |/\ /\ /\ | Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |/\ /\ /\ | Internet: kd2bd@ka2qhd.de.com
Lincroft, NJ 07738 * /\ /\ * Morse : -. -.. ..--- -... -..

Date: Tue, 24 May 1994 07:09:59 EDT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!eff!
news.kei.com!news.byu.edu!news.mtholyoke.edu!nic.umass.edu!noc.near.net!
saturn.caps.maine.edu!maine.maine.edu!wjs@@
Subject: 150 Years
To: info-hams@ucsd.edu

Oops. Date in last posting should of course be MAY 24, 1844, not March 24.
Service messages

Date: Tue, 24 May 1994 07:01:03 EDT
From: ihnp4.ucsd.edu!swrinde!gatech!usenet.ins.cwru.edu!eff!news.kei.com!
news.byu.edu!news.mtholyoke.edu!nic.umass.edu!noc.near.net!saturn.caps.maine.edu!
maine.maine.edu!wjs@network.ucsd.
Subject: 150 Years
To: info-hams@ucsd.edu

Today's the day it all began. One hundred fifty years ago today, March 24,
1844 Samuel F.B. Morse sat at a table in the US Capitol building in Washington
and sent the first public telegraph message to his assistant, Alfred Vail, in
Baltimore. Morse's first message -- What hath God wrought -- opened the age
of electronic communications.

73, Mr. Morse, and tnx

-K1AG

Date: Tue, 24 May 1994 00:56:46 GMT
From: ihnp4.ucsd.edu!agate!iat.holonet.net!vectorbd!jp11@network.ucsd.edu
Subject: A4x (Oman) QSL Manager
To: info-hams@ucsd.edu

Spread the word that KD2OM is *NOT* the QSL manager for A47RS or any
other Oman station. He is mistakely listed as such in lists.

-Jim

--

-Jim Lill-
jp11@vectorbd.com
wa2zkd@wb2psi.#wny.ny.usa.na

Vector Board BBS
716-544-1863/2645
GEnie: ZKD

Date: 19 May 94 14:08:06 GMT
From: uchinews!ncar!gatech!howland.reston.ans.net!news.ans.net!
newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@rsch.wisc.edu
Subject: A novice needs some help!
To: info-hams@ucsd.edu

In article <1994Mar23.235408.10229@umr.edu>, brownnde@ee.umd.edu
(David Brown) writes:

To use Ham radio, you need a license from the FCC. For information
contact
The American Radio Relay League
225 Main St.
Newington, Ct. 06111

They have free info on how to become a ham.

Date: 24 May 1994 12:32:05 GMT
From: ihnp4.ucsd.edu!agate!usenet.ins.cwru.edu!lerc.nasa.gov!lerc.nasa.gov!
grybicki.lerc.nasa.gov!seryb@network.ucsd.edu
Subject: Icom IC-215 Manual Needed
To: info-hams@ucsd.edu

I am looking for a manual and schematic for the ICOM IC-215 2m xtal
controlled 2M FM rig. I will pay copying and mailing expenses. I might
even buy an old decrepit IC-215 with manual if the price was right. Thank
You

George Rybicki
KE8YX
12434 Janette Ave.
Strongsville, OH 44136
216-433-8473 (days)

Date: 24 May 1994 09:19:02 -0400
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.ans.net!
newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@network.ucsd.edu
Subject: LOOKING FOR >> Allied Radio AX-190 DOCUMENTATION!!!
To: info-hams@ucsd.edu

In article <n9rzc-200594010334@ruger-13.slip.uiuc.edu>,

n9rzc@uiuc.edu (Allen Hall) writes:

>I recently got this boat-anchor of a smithsonian piece of Allied
radio
>ax-190 receiver, and I need to do some internal fixing on the thing.
I
>would stand a much better chance if I could find the documentation
for this
>thing. (I'd ask allied if they had extras if they were still
around! :) I
>just know one of you guys out there with a club like the one I'm in
has one
>of these things sitting in the back corner, and probably have the
docs for
>it. I dunno, e-mail and we'll figure it all out.

Radio Shack should be able to provide you with a copy of the service
manual. Go to the local store and order it through their special
parts ordering facility. Ft. Worth always keeps these on file and
will make a copy for you (their is surely a charge). If the store
won't help, call Tandy direct in Ft. Worth.

de WB8NUT

Date: 24 May 1994 07:51:55 -0400
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!news.intercon.com!udel!
news.sprintlink.net!rtp.vnet.net!char2.vnet.net!not-for-mail@network.ucsd.edu
Subject: Luck Hurder ... gone:(Why?
To: info-hams@ucsd.edu

Bob Levine (levine@mc.com) wrote:

: In article 9021@cs.brown.edu,
md@maxcy2.maxcy.brown.edu (Michael P. Deignan) writes:
: -->YVES ALBERT <yves1@delphi.com> writes:
: -->-- Michael P. Deignan
: -->-- Amalgamated Baby Seal Poachers Union, Local 101
: -->-- "Get 'The Club'... Endorsed by Baby Seal poachers everywhere..."

: Maybe I don't agree with everything they do, but I certainly
To change things you can do it from the inside or the
outside - inside works better.
: feel that they provide a great service to all amateurs, not
: just their members.

: Stop whining and if you don't want any of the league's
: benefits than don't join,
: If you would like to CHANGE their views - get in
: participate, get elected! then VOTE
: don't participate in DXCC or WAS,
: don't QSL by the bureau, don't ask for legal assistance,
: don't ask for local technical assistance, don't read QST,
: don't attend an ARRL VE Session, don't ask for international
: licensing information.
: -----
: Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP
: levine@mc.com <--Internet email Phone(508) 256-1300 x247
: kd1gg@wa1phy.ma <--Packet Mail FAX(508) 256-3599
: -----
Dave, N9UNR

Date: 24 May 94 13:58:30 GMT
From: news-mail-gateway@ucsd.edu
Subject: Radio Shack DSP
To: info-hams@ucsd.edu

>Clay Jackson - N7QNM

>Has anyone had any experiences with the new RS DSP unit? For \$79.95,
>it seems pretty reasonable, if it works.

>Thanks in advance!

Clay,

Yeah, I just got one and it works great! I really can't compare it to any of the others, but I'm thrilled with it. Just the ticket for my mobile use. I tried it at home on a xcvr that does not have a CW filter and was really impressed with how well it worked for the price. If your intention is mostly to use it on SSB you will likely not be quite as impressed however. It does a nice job getting rid of the hetrodynes, etc, but otherwise it just doesn't do much for that service. That's not to put it down, 'cause none of them do much more than that actually for SSB. But since I do a lot of mobile CW I'm lovin' the little thing!

bcnu
Paul

ar..

Date: 24 May 1994 13:56:39 GMT
From: ihnp4.ucsd.edu!agate!cat.cis.Brown.EDU!NewsWatcher!user@network.ucsd.edu
Subject: Scurvy knaves at ARRL
To: info-hams@ucsd.edu

In article <2rqudj\$t91@gerald0.cc.utexas.edu>, oo7@astro.as.utexas.edu
(Derek Wills) wrote:

> Anthony_Pelliccio@brown.edu (Tony Pelliccio) fumes:
>
>
> >Hey.. don't forget the magazine publishers too! I wonder if the ARRL is
> >among them? Lets see, if we can sell x number of new subscriptions, that
> >means that x number of people stay employed and get annual increases.
>
> Each new subscription means one more person stays employed? I think
> you mean "y number of people", although the algebra is tough to solve
> without another equation somewhere.
>
> The ARRL actually gives people raises? I'm shocked! What a terrible
> waste of money - how can they hope to stay in business with an attitude
> like that? What a bunch of losers. I'm tempted to resign - do you
> realize that ARRL membership costs around 8 cents per day? Daylight
> robbery!

For what the ARRL has done lately, 8 cents a day is too much. As for what
variable I used... x is as good as y in this case. I should have said 'n'
number of people.... but that's life.

--
== Tony Pelliccio, KD1NR
== Anthony_Pelliccio@brown.edu, Tel. (401) 863-1880 Fax. (401) 863-2269
== The opinions above are my own and not those of my employer.

Date: 24 May 1994 14:00:49 GMT
From: ihnp4.ucsd.edu!agate!cat.cis.Brown.EDU!NewsWatcher!user@network.ucsd.edu
Subject: Scurvy knaves at ARRL
To: info-hams@ucsd.edu

In article <ddtodd.112.000E3034@ucdavis.edu>, ddtodd@ucdavis.edu (Daniel D.
Todd) wrote:

> In article <2rqudj\$t91@gerald0.cc.utexas.edu> oo7@astro.as.utexas.edu (Derek
Wills) writes:
> >From: oo7@astro.as.utexas.edu (Derek Wills)

> >Subject: Scurvy knaves at ARRL
> >Date: 23 May 1994 18:58:59 GMT
>
> >Anthony_Pelliccio@brown.edu (Tony Pelliccio) fumes:
>
>
> >>Hey.. don't forget the magazine publishers too! I wonder if the ARRL is
> >>among them? Lets see, if we can sell x number of new subscriptions, that
> >>means that x number of people stay employed and get annual increases.
>
> >Each new subscription means one more person stays employed? I think
> >you mean "y number of people", although the algebra is tough to solve
> >without another equation somewhere.
> How about an CFV on a new newsgroup? brown.slam.arrl.and no-code If the
> distribution was limited to brown.edu the rest of us could get along with our
> lives. I'll probably get the same response from Tony the last time I posted
> about him.... fuck off and go away. Sorry for those with sensitive eyes,
> but that's what the boy said.

No it doesn't mean that, but it means that the ARRL can further place
itself into matters that it has no business being in. And yes, there are
individuals at HQ who derive a direct benefit from this. As for slamming
no-codes, that's not what any of us have been saying. It's the no-clues
that bother us. Why not start a new ucdavis.whining.no-clue.people group?
You know, this almost makes me want to resume a UUCP connection again.

Tony

--

== Tony Pelliccio, KD1NR
== Anthony_Pelliccio@brown.edu, Tel. (401) 863-1880 Fax. (401) 863-2269
== The opinions above are my own and not those of my employer.

Date: Tue, 24 May 1994 12:46:14 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!
darwin.sura.net!rsg1.er.usgs.gov!dgg.cr.usgs.gov!bodoh@network.ucsd.edu
Subject: Test session stories
To: info-hams@ucsd.edu

In article <1994May23.202758.2452@newsgate.sps.mot.com>, markm@bigfoot.sps.mot.com
(Mark Monninger) writes:

|>
|> I guess it takes all kinds. Keeps things interesting, for sure.
|>
|> Anyone else have any interesting VE stories to add?
|>
|> 73... Mark AA7TA

When I took my test, a guy came in with his wife who was testing. He said he had thought about testing for his extra code but said he wasn't ready yet. He had previously passed the extra theory but had failed the code test repeatedly. Pretty soon everyone in the room was coaxing him to go for it.

Needless to say, he passed and was very surprised as he thought it would be years before he would be an extra. I thought this was a good example of the brotherhood/sisterhood/personhood of ham radio...

```
--
+++++
+ Tom Bodoh - Section Manager, Systems Engineering and Management, Hughes STX +
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66) Amateur radio call; NOYGT +
+ "Welcome back my friends to the show that never ends!" EL&P
+
+++++
-----
```

Date: 24 May 94 13:30:59 GMT
From: news-mail-gateway@ucsd.edu
Subject: Test session weirdos
To: info-hams@ucsd.edu

>without a signature and the guy got all steamed about his rights, etc etc.
>He got real belligerent and disruptive so we asked him to leave. He did
>(luckily) but not before a lot of very loud foul language and threats to
>sue us all etc etc. Anyone else ever have something like that happen in a
>test session?

gotta wonder about these guys (i think we've had 2 or 3 over 10 years). A few years ago we were doing an exam at the local hamfest and someone came up and I started going over the application and asking for identification and such and they wouldn't produce any. so we wouldn't let them take the test (Sorry, we have to have an idea that you are who you say you are.) Candidate goes away and comes back with a bunch of allies who get all worked up over this and how they don't do this at their sessions and yada yada. Still the answer is no. They go grab the hamfest guys and now the hamfest guys (who only had tech licenses at the time) start chiming in. Fortunately about this time some of the ARRL folks happened by and listened in & joined in our side of the argument, pulled the hamfest guys aside to explain to them how the system works for examinations and such.

after the hamfest, we start getting letters from the backers of the unidentifiable person with all sorts of interesting enclosures. a lot in the

ALL CAPS!!!! and crayon school of letter writing. quotes from the "amateur's code". I answer with copies of the requirements from the rules.

Eventually it all settled down.

Another one was a guy that would come to the tests, radio classes etc. and never take the exams. In classes, he'd generally try to be a pain in the neck of sorts...like you can't know $2 \times 2 = 4$ because of the heisenberg uncertainty principle etc. sigh. One thing that did come out was the guy had no problem copying code. I started carrying around a novice exam kit with me just so when ever this guy showed up, i'd be able to stick an exam under his nose.

He finally took the exams. missed extra by a few questions. got his novice license. the kicker is he would not supply the VEC with a copy of the license to get his advanced paperwork cleared, nor did he ever come back to take the extra written again. the guy's an SK now, but we did wonder what the problem was (he wouldn't talk about it) -- we'd wonder about things like did he have a license pulled and was afraid the FCC would find out? or was he on the lamb from the police in some state or something and afraid that by doing something like getting a radio license, he'd be raising his visibility? We never found out for sure - had to chalk it up to the guy just being "strange" -- although we did determine that his mailing address didn't match up with where he really lived....

I suppose the driver's license offices see a lot of this behavior as well..

bill wb9ivr
rockwell avionics/collins

Date: Tue, 24 May 1994 14:14:28 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
jfh@network.ucsd.edu
To: info-hams@ucsd.edu

References <1994May11.131758.9021@cs.brown.edu>, <2qr774\$221@jericho.mc.com>,
<2rspor\$fp1@char2.vnet.net>
Subject : Re: Luck Hurder ... gone:(Why?

exe02594@char2.vnet.net (exe02594) wrote:

> To change things you can do it from the inside or the
>outside - inside works better.

Using both tactics together often works better than either alone. It's usually called "good cop/bad cop".

--

Jack Hamilton Postal: POB 281107 SF CA 94128 USA
jfh@netcom.com Packet: kd6ttl@w6pw.#nocal.ca.us.na

End of Info-Hams Digest V94 #567
